Name of the Work: Estimate for Improvements to Roads and Drain at Nanjappa Layout, Gopalappa Garden, Ramanna Garden, and Surrounding area in Ward No.10, (Dodda

Pre measurements

Pre measurement recorded on:

Discription of Item	No	Length	Breadth	D1	D2	Avg Depth	Qty	Unit
Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3.								
Desilt								
Ramanna Garden								
1st Main Road from Dead End								
RHS								
	1	14.40	0.60	0.40	0.40	0.40	3.46	
	1	30.00	0.60	0.40	0.45	0.43	7.65	
	1	21.60	0.60	0.45	0.40	0.43	5.51	
LHS								
	1	14.50	0.60	0.45	0.40	0.43	3.70	
cross road from 1st Main road								
RHS								
	1	13.80	0.60	0.40	0.40	0.40	3.31	
	1	23.00	0.60	0.40	0.40	0.40	5.52	
2nd Main road to Dead End								
RHS								
	1	30.00	0.60	0.40	0.40	0.40	7.20	
	1	30.00	0.60	0.40	0.45	0.43	7.65	
	1	30.00	0.60	0.45	0.40	0.43	7.65	
	1	30.00	0.60	0.40	0.40	0.40	7.20	
	1	19.00	0.60	0.40	0.40	0.40	4.56	
LHS								
	1	30.00	0.60	0.40	0.40	0.40	7.20	
	1	30.00	0.60	0.40	0.35	0.38	6.75	
	1	30.00	0.60	0.35	0.40	0.38	6.75	
	1	30.00	0.60	0.40	0.40	0.40	7.20	
	1	19.00	0.60	0.40	0.35	0.38	4.28	
Deduction Culverts	-1	7.40	0.60	0.40	0.40	0.40	-1.78	
	-1	6.90	0.60	0.40	0.40	0.40	-1.66	
	-1	7.50	0.60	0.40	0.40	0.40	-1.80	
3rd Main road from Dead End								
RHS								
	1	30.00	0.60	0.40	0.40	0.40	7.20	
	1	30.00	0.60	0.40	0.40	0.40	7.20	
	1	27.00	0.60	0.40	0.35	0.38	6.08	

Assistant Executive Engineer
Vidyaranyapura Sub Divsn.
BBMP, Bangalore - 97

Discription of Item	No	Length	Breadth	D1	D2	Avg Depth	Qty	Unit
Deduction Culverts	-1	7.40	0.60	0.35	0.40	0.38	-1.67	
	-1	7.00	0.60	0.40	0.40	0.40	-1.68	
LHS								
	1	30.00	0.60	0.45	0.40	0.43	7.65	
New drain	1	6.00	1.10	1.00	1.00	1.00	6.60	
	1	24.00	0.60	0.40	0.45	0.43	6.15	
	1	27.00	0.60	0.45	0.40	0.43	6.92	
1st cross from 2nd Main road								
RHS								
	1	30.00	0.60	0.45	0.40	0.43	7.65	
	1	30.00	0.60	0.40	0.40	0.40	7.20	
	1	30.00	0.60	0.40	0.35	0.38	6.75	
	1	30.00	0.60	0.35	0.40	0.38	6.75	
	1	7.70	0.60	0.45	0.40	0.43	1.96	
LHS								
	1	13.00	0.60	0.45	0.40	0.43	3.32	
New drain	1	7.00	1.10	1.00	1.00	1.00	7.70	
	1	10.00	0.60	0.40	0.45	0.43	2.55	
	1	30.00	0.60	0.45	0.35	0.40	7.20	
	1	30.00	0.60	0.35	0.40	0.38	6.75	
	1	24.50	0.60	0.40	0.45	0.43	6.25	
	1	30.00	0.60	0.45	0.40	0.43	7.65	
	1	7.70	0.60	0.40	0.40	0.40	1.85	
	1	29.00	0.60	0.40	0.45	0.43	7.40	
2nd cross from 3rd Main road								
LHS								
	1	30.00	0.60	0.45	0.40	0.43	7.65	
	1	7.00	0.60	0.40	0.40	0.40	1.68	
	1	18.80	0.60	0.40	0.45	0.43	4.79	
	1	30.00	0.60	0.45	0.40	0.43	7.65	
	1	30.00	0.60	0.40	0.40	0.40	7.20	
	1	3.40	0.60	0.40	0.45	0.43	0.87	
	1	10.00	0.60	0.45	0.40	0.43	2.55	
	1	20.40	0.60	0.40	0.45	0.43	5.20	
3rd cross from 3rd Main road								
RHS								
	1	30.00	0.60	0.45	0.40	0.43	7.65	
	1	30.00	0.60	0.40	0.45	0.43	7.65	
New drain	1	13.00	1.10	1.00	1.00	1.00	14.30	
	1	17.00	0.60	0.40	0.40	0.40	4.08	
	1	30.00	0.60	0.40	0.45	0.43	7.65	

Assistant Executive Engineer
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BBMP, Bangalore.

Discription of Item	No	Length	Breadth	D1	D2	Avg Depth	Qty	Unit
New Drain	1	18.70	1.10	1.00	1.00	1.00	20.57	
	1	11.30	0.60	0.45	0.40	0.43	2.88	
	1	5.50	0.60	0.40	0.40	0.40	1.32	
Deduction Culvert	-1	8.30	0.60	0.40	0.45	0.43	-2.12	
LHS								
	1	30.00	0.60	0.40	0.40	0.40	7.20	
	1	30.00	0.60	0.40	0.45	0.43	7.65	
	1	30.00	0.60	0.45	0.40	0.43	7.65	
	1	30.00	0.60	0.40	0.40	0.40	7.20	
	1	30.00	0.60	0.40	0.45	0.43	7.65	
	1	5.50	0.60	0.45	0.40	0.43	1.40	
cross road from 3rd cross								
RHS	1	18.00	0.60	0.40	0.40	0.40	4.32	
LHS	1	18.00	0.60	0.40	0.40	0.40	4.32	
Main Road from 1st cross								
LHS	1	9.00	0.60	0.40	0.40	0.40	2.16	
1st Main Road from Dead End								
RHS (New RCC Drain)								
4th cross to 3rd cross	1	25.00	1.10	1.00	1.00	1.00	27.50	
	1	5.00	1.10	1.00	1.00	1.00	5.50	
For RCC Culvert								
Culvert at 1st cross	1	7.50	2.20	1.20	1.20	1.20	19.80	
Culvert at 2nd cross	1	6.90	2.20	1.20	1.20	1.20	18.22	
Culvert at 3rd cross	1	7.40	2.20	1.20	1.20	1.20	19.54	
For SSM Culvert								
Culvert at 3rd cross	1	8.30	2.20	1.20	1.20	1.20	21.91	
	1	7.40	2.20	1.20	1.20	1.20	19.54	
Culvert at 3rd Main road	1	8.40	2.20	1.20	1.20	1.20	22.18	
						Present Qty	**521.07**	**Cum**

Geetha. NK 16/05/2020,
Assistant Engineer
Ward No.10

Asst. Executive Engineer,
Vidyaranya Pura Sub division

Assistant Executive Engineer
Vidyaranya Pura Sub Division
BBMP, Bangalore-97

me of the Work: Estimate for Improvements to Roads and Drain at Nanjappa Layout, Gopalappa Gar[illegible]en, Ramanna Garden, and Surrounding area in Ward No.10, (Dodda Bommasandra), Vidyaranyapura Sub Division.

	Pre measurements								
	Pre measurement recorded on:								
	Discription of Item	**No**	**Length**	**Breadth**	**D1**	**D2**	**Avg Depth**	**Qty**	**Unit**
	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2.								
	Bottom concrete for Damage Portion								
	Ramanna Garden								
	1st Main Road from Dead End								
	RHS								
		1	14.40	0.60	0.10	0.15	0.13	1.08	
		1	30.00	0.60	0.15	0.10	0.13	2.25	
		1	21.60	0.60	0.10	0.15	0.13	1.62	
	LHS								
		1	14.50	0.60	0.15	0.15	0.15	1.31	
	cross road from 1st Main road								
	RHS								
		1	13.80	0.60	0.10	0.15	0.13	1.04	
		1	23.00	0.60	0.15	0.10	0.13	1.73	
	3rd Main road from Dead End								
	LHS								
	New drain	1	6.00	1.10	0.15	0.15	0.15	0.99	
	1st cross from 2nd Main road								
	LHS								
	New drain	1	7.00	1.10	0.15	0.15	0.15	1.16	
	3rd cross from 3rd Main road								
	RHS								
	New drain	1	13.00	1.10	0.15	0.15	0.15	2.15	
	New drain	1	18.70	1.10	0.15	0.15	0.15	3.09	
	1st Main Road from Dead End								
	RHS								
	4th cross to 3rd cross	1	25.00	1.10	0.15	0.15	0.15	4.13	
		1	5.00	1.10	0.15	0.15	0.15	0.83	
	For RCC Culvert								
	Culvert at 1st cross	1	7.50	2.20	0.15	0.15	0.15	2.48	
	Culvert at 2nd cross	1	6.90	2.20	0.15	0.15	0.15	2.28	
	Culvert at 3rd cross	1	7.40	2.20	0.15	0.15	0.15	2.44	
	For SSM Culvert								

Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore

	Discription of Item	No	Length	Breadth	D1	D2	Avg Depth	Qty	Unit
	Culvert at 3rd cross	1	8.30	2.20	0.15	0.15	0.15	2.74	
		1	7.40	2.20	0.15	0.15	0.15	2.44	
	Culvert at 3rd Main road	1	8.40	2.20	0.15	0.15	0.15	2.77	
							Present Qty	**36.49**	**Cum**

Sumitha .N.L 19/05/2020
Assistant Engineer
Ward No.10

Asst. Executive Engineer,
Vidyaranya Pura Sub division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

Name of the Work: Estimate for Improvements to Roads and Drain at Nanjappa Layout, Gopalappa Garden, Ramanna Garden, and Surrounding area in Ward No.10, (Dodda Bommasandra), Vidyaranyapura Sub Division.

	Pre measurements						
Pre measurement recorded on:							
Item No	**Discription of Item**	**No**	**Length**	**Breadth**	**Depth**	**Qty**	**Unit**
4	Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.						
	Ramanna Garden						
	1st Main road						
	RHS						
	Total Drain length=30.00 Mtr						
	Main bar 10mm dia bar @ 125mm c/c						
	0.62kg/mtr						
	No of U Bars: No's	240	2.40		0.62	357.12	
	Distribution bar 10mm dia @ 125mm c/c						
	0.62kg/mtr	19	30.00		0.62	357.12	
	3rd Main road						
	LHS						
	Total Drain length=6.00 Mtr						
	Main bar 10mm dia bar @ 125mm c/c						
	0.62kg/mtr						
	No of U Bars: No's	48	2.40		0.62	71.42	
	Distribution bar 10mm dia @ 125mm c/c						
	0.62kg/mtr	19	6.00		0.62	71.42	
	1st cross from 2nd Main road (LHS)						
	Total Drain length=7.00 mtr						
	Main bar 10mm dia bar @ 125mm c/c						
	0.62kg/mtr						
	No of U Bars: No's	56	2.40		0.62	83.33	
	Distribution bar 10mm dia @ 125mm c/c						
	0.62kg/mtr	19	7.00		0.62	83.33	
	3rd cross from 3rd Main road						
	RHS						
	Total Drain length=13.00 mtr						
	Main bar 10mm dia bar @ 125mm c/c						

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	0.62kg/mtr						
	No of U Bars: No's	104	2.40		0.62	154.75	
	Distribution bar 10mm dia @ 125mm c/c						
	0.62kg/mtr	19	13.00		0.62	154.75	
	Total Drain length=18.70 mtr						
	Main bar 10mm dia bar @ 125mm c/c						
	0.62kg/mtr						
	No of U Bars: No's	150	2.40		0.62	222.60	
	Distribution bar 10mm dia @ 125mm c/c						
	0.62kg/mtr	19	18.70		0.62	222.60	
	For RCC Culverts						
	Culvert at 1st cross						
	Total Drain length=7.50 mtr						
	Main bar 12mm dia bar @ 125mm c/c						
	0.89kg/mtr						
	Top	60	2.80		0.89	149.52	
	Bottom	60	3.20		0.89	170.88	
	Distribution bar 10mm dia @ 150mm c/c						
	0.62kg/mtr						
	Top	19	7.50		0.62	86.80	
	Bottom	21	7.50		0.62	99.20	
	Culvert at 2nd cross						
	Total Drain length=6.90 mtr						
	Main bar 12mm dia bar @ 125mm c/c						
	0.89kg/mtr						
	Top	55	2.80		0.89	137.56	
	Bottom	55	3.20		0.89	157.21	
	Distribution bar 10mm dia @ 150mm c/c						
	0.62kg/mtr						
	Top	19	6.90		0.62	79.86	
	Bottom	21	6.90		0.62	91.26	
	Culvert at 3rd cross						
	Total Drain length=7.40 mtr						
	Main bar 12mm dia bar @ 125mm c/c						
	0.89kg/mtr						
	Top	59	2.80		0.89	147.53	
	Bottom	59	3.20		0.89	168.60	
	Distribution bar 10mm dia @ 150mm c/c						
	0.62kg/mtr						
	Top	19	7.40		0.62	85.64	
	Bottom	21	7.40		0.62	97.88	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP Bangalore-97

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
					Present Qty	**3250.39**	**Kg**
					Present Qty	**3.25**	**Tonne**

Sunitha .N C 19/05/2020
Assistant Engineer
Ward No.10

Asst. Executive Engineer
Vidyaranya Pura Sub division

Assistant Executive Engineer
Vidyaranyapura Sub Division
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Name of the Work: Estimate for Improvements to Roads and Drain at Nanjappa Layout, Gopalappa Garden, Ramanna Garden, and Surrounding area in Ward No.10, (Dodda Bommasandra), Vidyaranyapura Sub Division.

Pre Measurements

	Pre Measurement Recorded on:						
Item No	**Discription of Item**	**No**	**Length**	**Breadth**	**Depth**	**Qty**	**Unit**
5	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2						
	Ramanna Garden						
	For RCC Drain						
	For Wall						
	3rd Main road from Dead End						
	LHS						
		4	6.00		0.65	15.60	
	1st cross from 2nd Main road						
	LHS						
		4	7.00		0.60	16.80	
	3rd cross from 3rd Main road						
	RHS						
		4	13.00		0.68	35.10	
		4	18.70		0.68	50.49	
	1st Main Road from Dead End						
	RHS						
	4th cross to 3rd cross	4	25.00		0.68	67.50	
		4	5.00		0.65	13.00	
	For RCC Culvert						
	Culvert at 1st cross	4	7.50		0.60	18.00	
	Culvert at 2nd cross	4	6.90		0.70	19.32	
	Culvert at 3rd cross	4	7.40		0.70	20.72	
		4	8.30		0.50	16.60	
		4	7.40		0.60	17.76	
	Culvert at 3rd Main road	4	8.40		0.60	20.16	
	For Side Wall Raising						
	2nd Main road to Dead End						
	RHS						
		4	30.00		0.28	33.00	

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
		4	25.00		0.28	27.50	
		4	30.00		0.28	33.00	
		4	30.00		0.30	36.00	
		4	19.00		0.28	20.90	
	LHS						
		4	30.00		0.33	39.00	
		4	30.00		0.30	36.00	
		4	30.00		0.28	33.00	
		4	30.00		0.28	33.00	
		4	19.00		0.30	22.80	
	Deduction Culverts	-4	7.40		0.33	-9.62	
		-4	6.90		0.25	-6.90	
		-4	7.50		0.25	-7.50	
	3rd Main road from Dead End						
	RHS						
		4	30.00		0.30	36.00	
		4	30.00		0.28	33.00	
		4	27.00		0.25	27.00	
	Deduction Culverts	-4	7.40		0.25	-7.40	
		-4	7.00		0.25	-7.00	
	LHS						
		4	30.00		0.30	36.00	
		4	24.00		0.30	28.80	
		4	27.00		0.30	32.40	
	1st cross from 2nd Main road						
	RHS						
		4	30.00		0.25	30.00	
		4	30.00		0.28	33.00	
		4	30.00		0.30	36.00	
		4	30.00		0.28	33.00	
		4	7.70		0.25	7.70	
	LHS						
		4	13.00		0.28	14.30	
		4	10.00		0.30	12.00	
		4	30.00		0.30	36.00	
		4	30.00		0.30	36.00	
		4	24.50		0.28	26.95	

Assistant Executive Engineer
Vidyaranyapura Sub Division
Bangalore-97

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
		4	30.00		0.28	33.00	
		4	7.70		0.28	8.47	
		4	29.00		0.25	29.00	
	2nd cross from 3rd Main road						
	LHS						
		4	30.00		0.25	30.00	
		4	7.00		0.28	7.70	
		4	18.80		0.28	20.68	
		4	25.00		0.28	27.50	
					Present Qty	**1201.33**	**Sqm**

Sunitha. N K 27/05/2020
Assistant Engineer
Ward No.10

Asst. Executive Engineer.
Vidyaranya Pura Sub division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97